

Asparaginylendopeptidase, Arginylendopeptidase, *Achromobacter* protease I, Trypsin, *Staphylococcus aureus* V8 protease, Endoproteinase Asp-N, and Endoproteinase Lys-C; a mutated polypeptide derived from said polypeptide by *in vitro* mutagenesis, wherein a site of enzymatic cleavage by the selected enzyme has been removed; and fragmented peptides derived from said peptide by enzymatic cleavage with the selected enzyme; wherein said polypeptide and said sample protein are contacted with the selected protease; and wherein the protein, polypeptides, and fragmented peptides are visualized by application of the protein, polypeptides, and fragmented peptides to an acrylamide gel, resolution of the protein, polypeptides, and fragmented peptides using an electrical current, and application to the gel of a detection reagent, which stains the protein, polypeptides, and fragmented peptides. --

IN THE CLAIMS:

Please cancel claims 1-14 and add the following new claims:

- 15. An isolated nucleic acid molecule selected from the group consisting of:
- (a) a nucleic acid molecule having the sequence of SEQ ID NO:1 or SEQ ID NO:2;
 - (b) a nucleic acid molecule encoding an amino acid sequence comprising the sequence of SEQ ID NO:3 or SEQ ID NO:4;
 - (c) a nucleic acid molecule that hybridizes to either strand of a denatured, double-stranded DNA comprising the nucleic acid sequence of (a) or (b) under conditions of moderate stringency in 50% formamide and 6XSSC, at 42°C with

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